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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(s): CUBERES ALTISEN et al.

SERIAL NO.: 10/804,505

ART UNIT:

FILING DATE: 3/19/04

EXAMINER:

TITLE: SUBSTITUTED AZETIDINE COMPOUNDS, THEIR
PREPARATION AND USE AS MEDICAMENTS

ATTORNEY

DOCKET NO.: 785-011733-US (PAR)

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
(37 C.F.R. §1.97 (b) (3))

Sir:

This information disclosure statement is being filed before the mailing of a first Office Action on the merits.

The following information is being disclosed to the Patent and Trademark Office as information that may be material to the examination of the above-identified patent application. Applicants' Attorney is aware of the following references:

US 5,073,646

DE 299 21 689 U1

"Health Aspects of Cannabis", Leo E. Hollister

"Chemistry and pharmacology of cannabis", Renu Seth et al.

"Potential Role of Cannabinoids for Therapy of Neurological Disorders", Consroe and Sandyk

"Novel Syntheses of 1,3,3-Trinitroazetidine", Alan R. Katritzky,
et al.

"Acylative Dealkylation of *N*-tert-Butyl-3-substituted Azetidines:
Facile Access to [1.1.0] Azabicyclobutane, 3-Hydroxyazetidinium
Hydrochloride, and 3-Azetidinones", Paritosh R. Dave

"Synthesis of Novel Four-Membered Ring Amino Acids as Modulators
of the *N*-Methyl-D-Aspartate (NMDA) Receptor Complex", Alan P.
Kozikowski, et al.

"Synthesis of 1,3,3-Trinitroazetidine", Theodore Axenron, et al.

"The selective formation of unsaturated alcohols by hydrogenation
of α,β -unsaturated aldehydes in supercritical carbon dioxide using
unpromoted Pt/Al₂O₃ catalyst", Bhalchandra M. Bhanage, et al.

"Studies on β -Methyl-1-and 3-Phenyl Allyl Chlorides", M.Y.
Shandala, et al.

"Selective Reduction of Carbonyl Compounds by
Polymethylhydrosiloxane in the Presence of Metal Hydride
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"Catalytic Asymmetric Cyclopropanation of Allylic Alcohols with
Titanium-TADDOLate: Scope of the Cyclopropanation Reaction",
Andre B. Charette, et al.

"Thionyl Chloride-Benzotriazole in Methylene Chloride: A
Convenient Solution for Conversion of Alcohols and Carboxylic
Acids Expeditiously into Alkyl Chlorides and Acid Chlorides by
Simple Titration", Sachin S. Chaudhari, et al.

"Activation de la liaison silicium-halogene par les halogenures
de bismuth (III). Halogenation des alcohols: perspectives et
mecanisme [1]", Mireille Labrouillere, et al.

"Syntheses of Two Cytotoxic Sinapyl Alcohol Derivatives and Isolation of Four New Related Compounds from *Ligularia nelumbifolia*", Yu Zhao, et al.

"Towards an Understanding of Cram/*anti*-Cram selectivity on Addition of Crotylboronates to α -Methylbutyraldehyde", Reinhard W. Hoffmann

"Stereospecific Synthesis of 2,3,6-Trisubstituted Piperidines: An Efficient Total Synthesis of (\pm)-Pumiliotoxin C¹", Norman A. LeBel, et al.

"Triphenylphosphine/Dichloroselenurane: A New Reagent for a Selective Conversion of Alcohols into Alkyl Chlorides", Jozef Drabowicz, et al.

"Formation of indole nucleus via intramolecular cyclization of aminophenylpropenyltriphenylphosphonium salts with one-carbon degradation", Shin'ichi Taira et al.

"Benzophenone Derivatives and Related Compounds as Potent Histamine H₃-Receptor Antagonists and Potential PET/SPECT Ligands¹⁾", Astrid Sasse, et al.

"Stereoselective Syntheses of Spicy Components in Peppers", Akihiro Ohta, et al.

"Negative Inotropic and Calcium Antagonistic Activity of Alkyl and Arylalkyl Phosphonates", Cristina Bellucci, et al.

"Synthesis of 6-(3-Aryl-2-propenyl)-2,3-dihydro-5-hydroxybenzofuran Derivatives by Cross Coupling Reactions", Ramon J. Alabaster, et al.

"Antioxidant-Based Inhibitors of Leukotriene Biosynthesis. The Discovery of 6-[1-[2-(Hydroxymethyl)phenyl]-1-propen-3-yl]-2,3-

dihydro-5-benzofuranol, a Potent Topical Antiinflammatory Agent",
Milton L. Hammond, et al.

"Configurational Analysis of 1-Alkyl-2-Methylazetidin-3-ols",
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"New Synthesis of 2-Azetines and 1-Azabutadienes and the Use of
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"Cyclization of 1-Alkylamino-3-halo-2-alkanols to 1-Alkyl-3-
azetidins", V.R. Gaertner

"Solid-Phase Synthesis of Oximes", Hajipour, A.R., et al.

"A Short, Efficient Synthesis of Substituted Uracil: An Indane
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"Benzhydryl and Fluorenyl Lactamimides with Hypoglycemic,
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"Synthesis of Substituted Benzhydrylamines", Yves Dejaegher, et al.

"7-Azetidinylquinolones as Antibacterial Agents. Synthesis and
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"7-Azetidinylquinolones as Antibacterial Agents. 1. Synthesis
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Properties and Structure-Activity Relationships of Quinolones
with an Azetidine Moiety", Jordi Frigola, et al.

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Moiety", Jordi Frigola, et al.

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"Progress toward the Total Synthesis of Bafilomycin A₁:
Stereoselective Synthesis of the C15-C25 Subunit by Additions of
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"The Azetidines, Recent Synthetic Developments", Norman H.
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"Synthese de l' amino-3 azetidine", Dino Nisato, et al.

"A Short Enantioselective Synthesis of N-Boc- α -Amino Acids from
Epoxy Alcohols", Marta Poch, et al.

"A Versatile Enantiospecific Approach to 3-Azetidinols and
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"Synthesis of 1-Alkyl-3-Hydroxy-2-Phenylazetidines", Takashi
Toda, et al.

"Ring Opening of Azetidinols by Phenols: Regiochemistry and
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"Synthetic Applications of 1-Aminoalkyl Chloromethyl Ketones.
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Jose Barluenga, et al.

"A human whole blood assay for clinical evaluation of biochemical efficacy of cyclooxygenase inhibitors", Brideau et al.

"Reactivos Bioquimicos y Organicos para investigation en biociencias" Sigma

"Basic Section, A new and sensitive method for measuring thermal nociception in cutaneous hyperalgesia", K. Hargreaves, et al.

"Carrage Edema in Hind Paw of the Rat as an Assay for Antiinflammatory Drugs", Charles A. Winter, et al.

"Selective Inhibition of Cyclooxygenase (COX)-2 Reverses Inflammation and Expression of COX-2 and Interleukin 6 in Rat Adjuvant Arthritis", Gary D. Anderson, et al.

"Effect of nimesulide on cyclo-oxygenase activity in rat gastric mucosa and inflammatory exudate", O. Tofanetti, et al.

"New Cyclooxygenase-2/5-Lipoxygenase Inhibitors. 1. 7-tert-Butyl-2,3-dihydro-3,3-dimethylbenzofuran Derivatives as Gastrointestinal Safe Antiinflammatory and Analgesic Agents: Discovery and Variation of the 5-Keto Substituent", John M. Janusz, et al.

4 pages of Product Information by product number from product catalog (www.caymanchem.com)

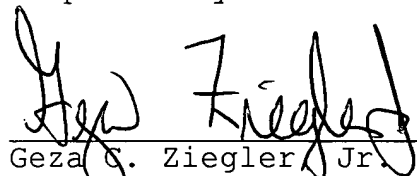
"Amberlyst-15(H⁺)-NaBH₄-LiG1: An Effective Reductor for Oximes and Hydrazones", Bipul Baruah et al.

Copies of these references are enclosed together with a Form PTO-1449.

The filing of this Statement is not to be construed as a representation that a search has been made regarding the claimed invention (37 C.F.R. §1.97(g)) or that no other possible material information exists. In addition, the filing of this Information Disclosure Statement is not to be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability (37 C.F.R. §1.97(h)).

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,



Geza C. Ziegler, Jr.
Reg. No. 44,004

25 October 2004
Date

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Fairfield, CT 068424
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CERTIFICATE OF MAILING

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INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449) (Substitute)			Docket No.: 785-011733-US (PAR)		Serial No.: 10/804,505	
Applicant(s): CUBERES ALTISEN, et al.			Filing Date: 3/19/04		Group:	
U.S. PATENTS						
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	5,073,646	12/17/91	Pinol et al.	548	953	6/20/90
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Initials	Document Number	Date	Country	Name	Translation? Yes/No/n/a	
	DE 299 21 689 U1	5/23/01	Germany	Thomas Emde	no	
OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)						
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	"Novel Syntheses of 1,3,3-Trinitroazetidine", Alan R. Katritzky, et al., J. Heterocyclic Chem. 31, 271-275 (1994)					
	"Acylation Dealkylation of <i>N</i> -tert-Butyl-3-substituted Azetidines: Facile Access to [1.1.0] Azabicyclobutane, 3-Hydroxyazetidinium Hydrochloride, and 3-Azetidinones", Paritosh R. Dave, J. Org. Chem. 1996, 61, 5453-5455					
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Examiner's Signature:				Date Considered:		
Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).						

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	"A Human Whole Blood Assay for Clinical Evaluation of Biochemical Efficacy of Cyclooxygenase Inhibitors", C. Brideau, et al., Flamm Res 45:68-74 (1996)					
	"Reactivos Bioquimicos y Organicos Para Investigation en Biociencias", 2002-2003, Sigma, page 1222					
	"Basic Section, A New and Sensitive Method for Measuring Thermal Nociception in Cutaneous Hyperalgesia", K. Hargreaves, et al., Pain, 32 (1988) 77-88					
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